

CLAIMS:

1. An electrophoretic display panel for displaying a picture and a subsequent picture comprising:

- a first and a second opposed substrate;
- an electrophoretic medium between the substrates;

5 - a plurality of pixels;

- a first and a second electrode associated with each pixel for receiving a potential difference; and

- drive means;

the electrophoretic medium being able to provide each pixel with an appearance, being one of

10 a first and a second extreme appearance and intermediate appearances between the first and the second extreme appearance, and

the drive means being able to control for each pixel the potential difference

- to have a picture value to provide the pixels with a respective picture appearance being one of the appearances in dependence of the picture to be displayed, subsequently

15 - to have an inter-picture value to provide the pixels with a respective inter-picture appearance, and subsequently

- to have a subsequent picture value to provide the pixels with a respective subsequent picture appearance being one of the appearances in dependence of the subsequent picture to be displayed, wherein

20 the drive means are able to control for each pixel an estimate potential difference as the inter-picture value to provide the pixels with a respective estimate picture appearance as the inter-picture appearance.

2. A display panel as claimed in claim 1 characterized in that the respective

25 estimate picture appearance is substantially equal to one of the extreme appearances associated with the subsequent picture appearance.

3. A display panel as claimed in claim 2 characterized in that the estimate picture appearance of each pixel is substantially equal

- to the first extreme appearance if the respective subsequent picture appearance is optically closer to the first extreme appearance than to the second extreme appearance, and
- to the second extreme appearance otherwise.

5 4. A display panel as claimed in claim 3 characterized in that the drive means are further able to control for each pixel the potential difference for displaying the subsequent picture to have a sequence of preset values, the preset values in the sequence alternating in sign and having an absolute value in the order of the subsequent picture value, and to apply
10 each preset value in the sequence for a duration being at least a factor of two smaller than a largest duration of the durations during which the subsequent picture values will be applied, before having the subsequent picture value.

5. A display panel as claimed in claim 4 characterized in that the sequence of preset values has a last preset value with equal sign as the sign of the subsequent picture
15 value.